

US EPA RECORDS CENTER REGION 5



506853

REILLY TAR HYDROGEOLOGY SUPPORT

WORK PLAN

Prepared for

**U.S. ENVIRONMENTAL PROTECTION AGENCY
OFFICE OF WASTE PROGRAMS ENFORCEMENT
Washington, D.C. 20460**

Date Prepared: 29 August 1983

Under Contract No.: 68-01-6769

Work Assignment No. 83-17

(GCA 1-625-017)

**GCA CORPORATION
GCA/TECHNOLOGY DIVISION
Bedford, Massachusetts 01730**

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3.0 INTRODUCTION

From 1917 to 1970 Reilly Tar Chemical Company refined coal tar, which they purchased from various sources and primarily from coke plants in recent years, and treated wood with creosote. They occupied an 80-acre site in St. Louis Park, Minnesota which is a western suburb of Minneapolis. The City purchased the land in 1970, upon the closing and demolition of existing structures. The site is presently vacant land with a condominium constructed at one corner. Over the past several years, many studies have identified the threat to public health, the contamination of ground water and soil and a list of remedial actions needed to correct this situation. The main contaminants involved at the site are Polynuclear Aromatic Hydrocarbons (PAH), phenols and creosote. There is a heavily contaminated area of soil on the site itself, extending off-site in the area of surface drainage. The complex ground water situation has contributed to the contamination of ground water within a 2 to 3 mile radius of the site, including several different aquifers.

In 1980 the United States filed a civil action against Reilly Tar based on the imminent and substantial endangerment to human health and the environment under the authority of the Resource Conservation and Recovery Act. The complaint has recently been amended to include authority under the Comprehensive Environmental Response, Compensation and Liability Act (Superfund). The United States is seeking restoration of the aquifers beneath the site to a useable condition and cleanup of the near-surface contamination and other action to prevent future endangerment to ground water.

The U.S. District Court in Minneapolis is currently considering legal motions by Reilly and trial will be scheduled after these motions are denied. Discovery is likely to be protracted and trial several months away.

GCA has been requested by EPA to provide analysis of ground water contaminants, assist litigation teams, and prepare enforcement support documents. EPA requires the service of Mr. James Geraghty of Geraghty & Miller, Inc. Mr. Geraghty has provided expert support for this case in the past and OWPE wishes to continue this support. Mr. Geraghty will require some limited support from members of his firm as well as from GCA.

4.0 PROJECT APPROACH/REPORT OUTLINE

Mr. James Geraghty, with assistance of Geraghty & Miller and GCA staff will perform the following tasks:

Task 1

Review all data within the possession of the USGS in Minneapolis, the Minnesota Department of Health, the Minnesota Pollution Control Authority and the U.S. Environmental Protection Agency on the geology, hydrology, and the presence of pollutants in the ground water at St. Louis Park, Minnesota.

Task 2

Review the conclusions by the USGS and other expert witnesses identified by the EPA technical manager, on the presence of pollutants originating from the Reilly Tar site in St. Louis Park.

Task 3

Attend meetings with the Federal and State litigation teams to discuss task two.

Task 4

Prepare reports as required by the litigation team.

Task 5

Testify as an expert witness in a court of law (trial is expected in the Fall of 1984).

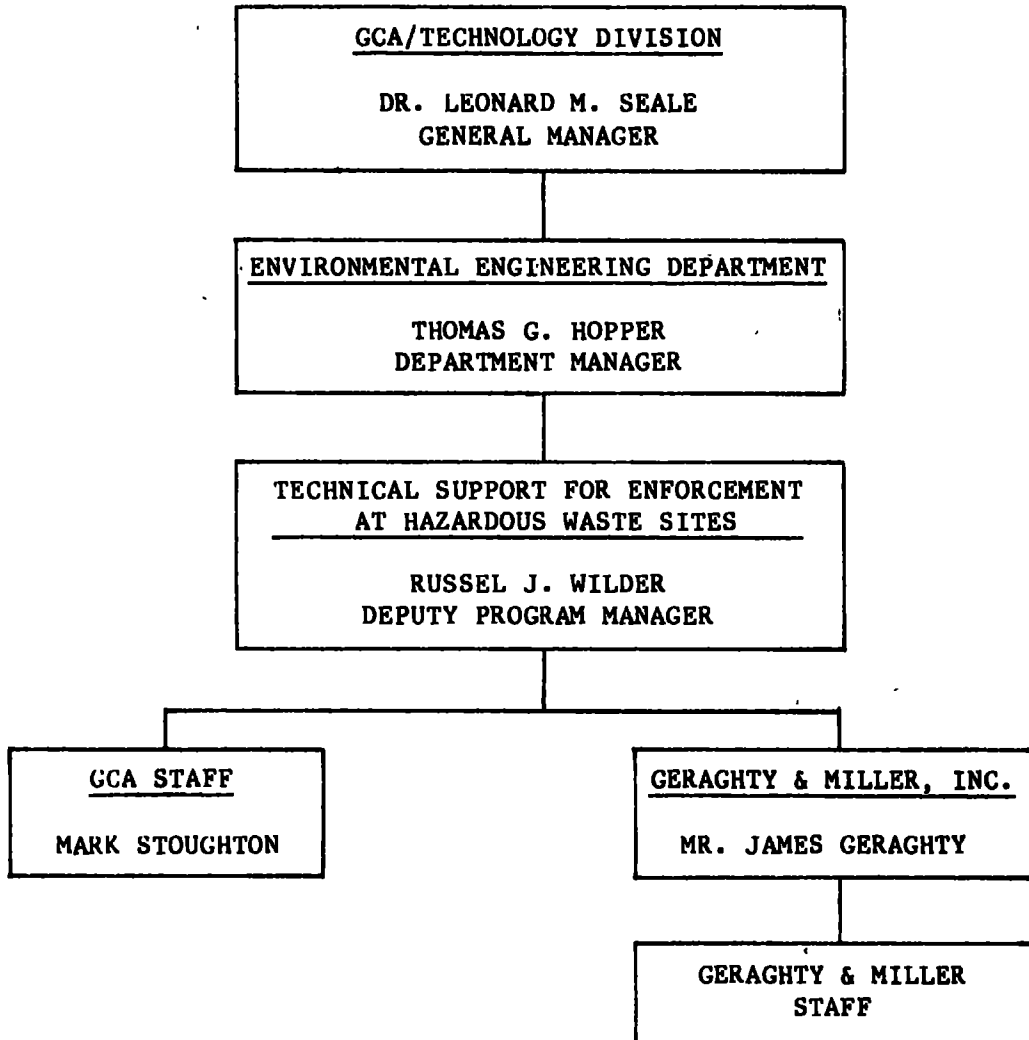
Travel: The performance of the above tasks will require two trips to Washington, DC (two people each) and five trips to Minneapolis, Minnesota (two people each).

5.0 PROGRAM SCHEDULE OF WORK

EPA has not specified when meetings, briefings and reviews of documents will take place. It is expected that GCA will receive directives regarding task activities performance as the work assignment progresses.

Monthly reports will summarize the activities EPA has requested to be performed for the reporting period. The Draft Final Report for this Work Assignment will be a summary of activities undertaken. It will be due October 31, 1984.

6.0 PERSONNEL



7.0 ANTICIPATED INTERVIEWS, SUBCONTRACTOR/CONSULTANT USE

GCA and/or Geraghty & Miller may conduct interviews with the USGS, the Minnesota Pollution Control Authority, the Minnesota Department of Health and EPA concerning Geology, Hydrology and the presence of pollutants in the ground water at St. Louis Park, Minnesota. GCA will retain the services of Mr. James Geraghty and appropriate support staff of the firm of Geraghty & Miller, Inc.

8.0 ANTICIPATED PROBLEMS IN COMPLETING THE ASSIGNMENT

GCA does not anticipate problems in completing this work assignment.

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9.0 COST ESTIMATE

GCA/TECHNOLOGY DIVISION
A DIVISION OF GCA CORPORATION
Bedford, Massachusetts 01730

29 August 1983

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COST ESTIMATE

REILLY TAR - HYDROGEOLOGY SUPPORT

Contract No. 68-01-6769, Work Assignment No. 83-17 (GCA 1-625-017)

| <u>Labor Grade</u> | <u>Description</u> | <u>Bidding Rate</u> ⁽¹⁾ | <u>No. of Hours</u> | <u>Total</u> |
|--|------------------------------|------------------------------------|--------------------------|-----------------|
| 9 | Principal Scientist/Engineer | \$15.65/hr | 30 | \$ 470 |
| 5 | Junior Scientist/Engineer | \$ 7.71/hr | 70 | 540 |
| 4 | Technical Illustrator | \$ 7.95/hr | 2 | 16 |
| 3 | Technical Typist | \$ 7.04/hr | 5 | 35 |
| Total Direct Labor | | | 107 hours ⁽³⁾ | \$ 1,061 |
| Salary Related Cost ⁽²⁾ (32.5%) | | | | 345 |
| Subtotal | | | | 1,406 |
| Engineering Overhead ⁽²⁾ (88.0%) | | | | 1,237 |
| Subcontracting (see Pages 2 and 3) | | | | 55,619 |
| Subtotal | | | | 58,262 |
| General & Administrative Expense ⁽²⁾ (3.7%) | | | | 2,156 |
| Total Estimated Cost | | | | 60,418 |
| Fixed Fee | | | | 1,354 |
| TOTAL WORK ASSIGNMENT COST | | | | <u>\$61,772</u> |

Notes: (1) Use of direct labor bidding rates pertinent to 1983 requested on 29 April 1983.

(2) Use of indirect rates pertinent to 1983 requested on 29 April 1983.

(3) Of this total, 100 are technical man-hours which, when added to the 400 TMH provided by the subcontractor, amounts to 500 TMH in accordance with the Government estimate for WA 83-17.

CONTRACT PRICING PROPOSAL

(RESEARCH AND DEVELOPMENT)

Office of Management and Budget
Approval No 29-RC184

This form is for use when (1) submission of cost or pricing data (see FPR 1-5.807-3) is required and (2) substitution for the Optional Form 99 is authorized by the contracting officer

PAGE NO

2

NO OF PAGES

3

NAME OF OFFEROR

GERAGHTY & MILLER, INC.

HOME OFFICE ADDRESS

6800 Jericho Turnpike
Syosset, New York 11791

SUPPLIES AND/OR SERVICES TO BE FURNISHED

DIVISION(S) AND LOCATION(S) WHERE WORK IS TO BE PERFORMED

Tampa, Florida

TOTAL AMOUNT OF PROPOSAL

\$55,618.89

GOV T SOLICITATION NO

DETAIL DESCRIPTION OF COST ELEMENTS

| 1 DIRECT MATERIAL (Items on Exhibit A) | | | | EST COST (\$) | TOTAL EST COST | REFERENCE |
|---|--|--|--|-----------------|----------------|---------------|
| a PURCHASED PARTS | | | | | | |
| b SUBCONTRACTED ITEMS | | | | | | |
| c OTHER (1) RAW MATERIAL | | | | | | |
| (2) YOUR STANDARD COMMERCIAL ITEMS | | | | | | |
| (3) INTERDIVISIONAL TRANSFERS (If other than cost) | | | | | | |
| TOTAL DIRECT MATERIAL | | | | | | |
| 2 MATERIAL OVERHEAD (Rate % of \$ base -) | | | | | | |
| 3 DIRECT LABOR (Specify) | | | | ESTIMATED HOURS | RATE/HOUR | EST COST (\$) |
| Principal (James J. Geraghty) | | | | 140 | 46.39 | 6494.60 |
| Senior Scientist | | | | 212 | 20.08 | 4256.96 |
| Technician/Draftsman | | | | 48 | 10.24 | 496.52 |
| TOTAL DIRECT LABOR | | | | | | 11243.08 |
| 4 LABOR OVERHEAD (Specify Department or Cost Center) | | | | O H RATE | X BASE = | EST COST (\$) |
| | | | | 145 | 11243.08 | 16302.47 |
| TOTAL LABOR OVERHEAD | | | | | | 27545.55 |
| 5 SPECIAL TESTING (Including field work at Government installations) | | | | EST COST (\$) | | |
| TOTAL SPECIAL TESTING | | | | | | |
| 6 SPECIAL EQUIPMENT (If direct charge) (Items on Exhibit A) | | | | EST COST (\$) | | |
| 7 TRAVEL (If direct charge) (Give details on attached Schedule) | | | | EST COST (\$) | | |
| a TRANSPORTATION (See Attachment A) | | | | 8644.00 | | |
| b PER DIEM OR SUBSISTENCE | | | | 2800.00 | | |
| TOTAL TRAVEL | | | | 11444.00 | | |
| 8 CONSULTANTS (Identify - purpose - rate) | | | | EST COST (\$) | | |
| TOTAL CONSULTANTS | | | | | | |
| 9 OTHER DIRECT COSTS (Items on Exhibit A) | | | | 330.00 | | |
| 10 TOTAL DIRECT COST AND OVERHEAD | | | | 50562.63 | | |
| 11 GENERAL AND ADMINISTRATIVE EXPENSE (Rate % of cost element Nos 1-10) | | | | | | |
| 12 ROYALTIES | | | | | | |
| 13 TOTAL ESTIMATED COST | | | | 50562.63 | | |
| 14 FEE OR PROFIT 10% | | | | 5056.26 | | |
| 15 TOTAL ESTIMATED COST AND FEE OR PROFIT | | | | 55618.89 | | |

ATTACHMENT A TO CONTRACT PRICING PROPOSAL
ITEM 7 - TRAVELAirline2 round-trips (Tampa-Washington, D.C.) x 2 men =
4 round-trips @ \$466.00/ea.

\$ 1,864.00

5 round-trips (Tampa-Minneapolis, MN) x 2 men =
10 round-trips @ \$622.00/ea.6,220.00

Subtotal:

\$ 8,084.00

Local Transportation(Includes mileage to and from the airport, taxis and/or
rental cars, gas, and tolls)

2 men x 7 trips = 14 days @ \$40/day

\$ 560.00

Subtotal:

\$ 560.00

Per Diem

2 men x 7 trips x 2 days each = 28 days @ \$100/day

\$ 2,800.00

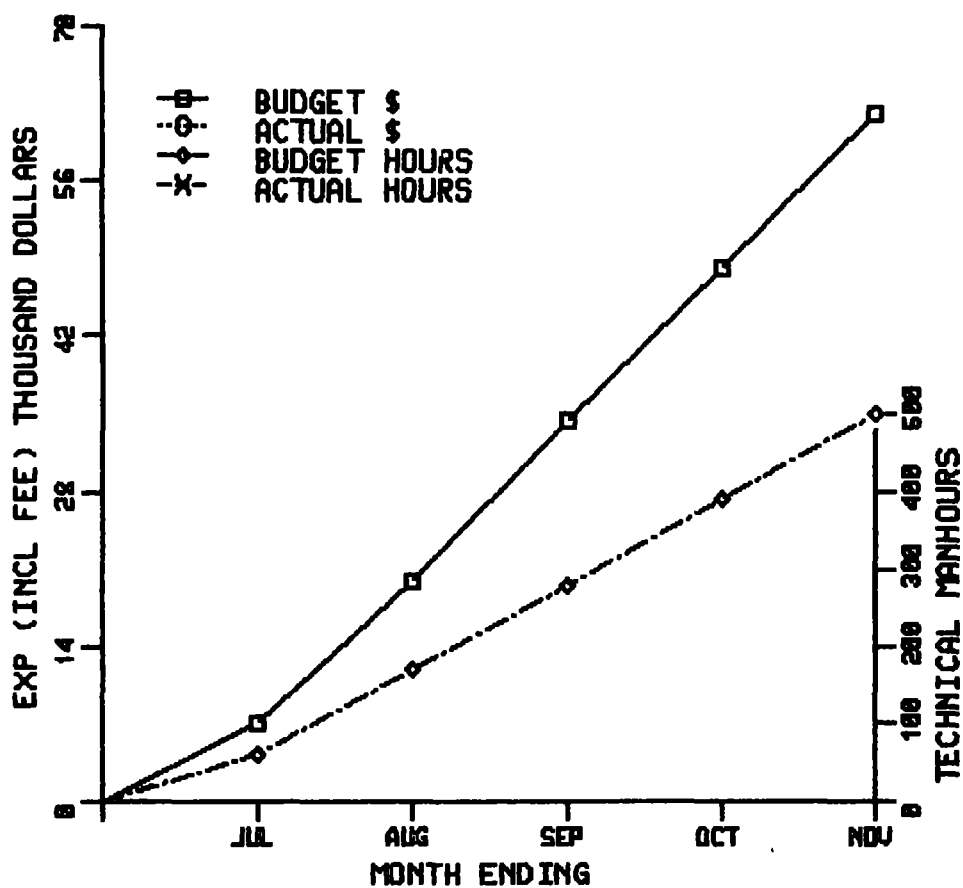
Subtotal:

\$ 2,800.00

TOTAL:

\$11,444.00

CUMULATIVE PERFORMANCE
 CONTRACT 68 01 6769 WA 83 17 GCA 1625017
 TOTAL \$61772 TMH 500



10.0 EXCEPTIONS TO THE WORK ASSIGNMENT

GCA takes no exceptions to this Work Assignment.